

## Section 1 - Identification of the material and supplier

### 1.1 Product identifier

Product name WESTCO A-1120  
Chemical Name N-[3-(trimethoxysilyl)propyl]ethylenediamine

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: industrial use  
Uses advised against: Not for food, drug, pesticide or biocidal product use

### 1.3 Details of the supplier of the safety data sheet

Supplier: Western Reserve Chemicals  
Address: 4837 Darrow Road, Stow, Ohio 44224 USA  
Telephone: 330-650-2244  
Website: www.wrchem.com

### 1.4 Emergency telephone number

Emergency response service: Chemtrec: 1-800-424 9300 USA

## Section 2 - Hazards identification

### 2.1 Classification of the substance or mixture

Skin irritation (Category 2), H315  
Serious eye damage (Category 1), H318  
Skin sensitization (Category 1), H317

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word :

Danger

#### Hazard statement(s)

H315 Causes skin irritation  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

#### Precautionary statement(s)

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P280	Wear protective gloves/ eye protection/ face protection.
	IF IN EYES: Rinse cautiously with water for several minutes.
P305 + P351 + P338	Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 3 - Composition/information on ingredients

### 3.1 Substances

Synonyms:	[3-(2-Aminoethylamino)propyl]trimethoxysilane N-[3-(Trimethoxysilyl)propyl]ethylenediamine
Formula	C <sub>8</sub> H <sub>22</sub> N <sub>2</sub> O <sub>3</sub> Si
Molecular Weight	222.36 g/mol

Component	Concentration
N-(2-Aminoethyl-3-aminopropyl)trimethoxysilane	
CAS-No. 1760-24-3	
EC-No. 217-164-6	-

### 3.2 Mixtures

Not Relevant

## Section 4 -First-aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

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**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), silicon oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

**Section 6 - Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

**Section 7 - Handling and Storage****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of Electrostatic charge.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Moisture sensitive.

**7.3 Specific end uses**

no data available

**Section 8 - Exposure Controls / Personal Protection****8.1 Control parameters****8.2 Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before

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breaks and at the end of workday.

### **Personal protective equipment**

#### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal Technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be Selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face Respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Section 9 - Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance	Colourless or light yellow liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing	no data available
Initial boiling point and	146 °C at 20 hPa - lit.
Flash point	136 ° C(277 ° F)-DIN 51758
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	1.028 g/cm <sup>3</sup> at 25 °C
Water solubility	no data available
Partition coefficient: noctanol/	no data available

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water

Autoignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

## 9.2 Other safety information

no data available

## Section 10 - Stability and Reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Oxidizing agents, Water and acids react with material to liberate methanol. Heat of reaction may ignite vapors of the alcohol, acids

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male and female - 2.295 mg/kg

(US-EPA)

LC50 Inhalation - Rat - male and female - 4 h - 1,49 - 2,44 mg/l

(US-EPA)

LD50 Dermal - Rat - > 2.000 mg/kg

(OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit

Result: slight irritation - 4 h

(US-EPA)

#### Serious eye damage/eye irritation

Eyes - Rabbit

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Result: Causes serious eye damage.

(OECD Test Guideline 405)

### **Respiratory or skin sensitization**

Maximisation Test - Guinea pig

Result: positive

(OECD Test Guideline 406)

Sensitisation test (Magnusson and Kligman):

Result: positive

Remarks: (External MSDS)

### **Germ cell mutagenicity**

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

In vitro mammalian cell gene mutation test

Chinese hamster ovary cells

Result: negative

OECD Test Guideline 474

Mouse - male and female

Result: negative

### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### **Reproductive toxicity**

#### **Specific target organ toxicity - single exposure**

#### **Specific target orgtoxicity - repeated exposure**

#### **Aspiration hazard**

#### **Additional Information**

RTECS: KV7400000

## **Section 12 - Ecological Information**

### **12.1 Toxicity**

Toxicity to fish	semi-static test LC50 - Danio rerio (zebra fish) - 597 mg/l - 96 h(N-(2-Aminoethyl)-3-(trimethoxysilyl)propylamine) Remarks: (External MSDS)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 81 mg/l - 48 h(N-(2-Aminoethyl)-3-(trimethoxysilyl)propylamine) Remarks: (External MSDS)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (green algae) - 8,8 mg/l - 72 h(N-(2-Aminoethyl)-3-(trimethoxysilyl)propylamine)

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	(OECD Test Guideline 201)
Toxicity to algae	static test NOEC - Pseudokirchneriella subcapitata (green algae) - 3,1 mg/l - 72 h(N-(2-Aminoethyl)-3-(trimethoxysilyl)propylamine) (OECD Test Guideline 201)
Toxicity to bacteria	static test EC10 - Pseudomonas putida - 25 mg/l - 16 h(N-(2-Aminoethyl)-3-(trimethoxysilyl)propylamine) Remarks: (External MSDS)

## 12.2 Persistence and degradability

Biodegradability	aerobic - Exposure time 28d(N-(2-Aminoethyl)-3-(trimethoxysilyl)propylamine) Result: 39 % - Not readily biodegradable. (Regulation (EC) No. 440/2008, Annex, C.4-A)
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## 12.3 Bioaccumulative potential

## 12.4 Mobility in soil

## 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Other adverse effects

# Section 13 - Disposal Considerations

## 13.1 Waste treatment methods

### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

# Section 14 - Transport Information

## 14.1 DOT

Not regulated

IMDG: Not regulated

IATA: Not regulated

## 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

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IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**14.6 Special precautions for user**

no data available

## Section 15 - Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

US TSCA Inventory: 1760-24-3 is listed as Active

**15.2 Chemical Safety Assessment**

## Section 16 - Other Information

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- End of Safety Data Sheet

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